

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1232704	sio\$2sub\$2 silica (silicon adj dioxide) quartz	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:37
S2	3923603	powder grain particle particulate granul\$4 dispersion nanoparticle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:38
S3	801473	dopant cation (earth adj metal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:38
S4	2295974	fire firing sinter\$3 melt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:39
S5	10519	S1 same2 S2 same2 S3 same2 S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:39
S6	2290	S1 same S2 same S3 same S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:39
S7	8931563	reducing (atmosphere environment pressure oh)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:41
S8	1832	S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:41
S9	1259176	oh hydroxyl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:44
S10	502	S8 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:44
S11	821100	dopant cation (earth adj metal) Lanthanide actinide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:45

S12	2373	S1 same S2 same S11 same S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:45
S13	524	S12 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:46
S14	3681	(65/390-442).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 11:47
S15	35	S13 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:47
S16	4104	dopant same (cation (earth adj metal) Lanthanide actinide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:52
S17	9609	dopant same (cation (earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:53
S18	1050808	(cation (earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:54

S19	13530	S1 same S2 same S11 same S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:54
S20	48099	("65").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 11:54
S21	196	S19 and S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:54
S22	169	S21 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:55
S23	68	S21 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:55
S24	57	S21 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:55
S25	35	S22 and S23 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:55
S26	9	("20020134108"   "5643347"   "5979186"   "6380110"   "6684664"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:59
S27	0	S25 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 11:59
S28	0	("2002/0134108").URPN.	USPAT	OR	ON	2009/07/13 12:00
S29	8	("3383172"   "4042361"   "4126422"   "4528163"   "5643347").PN. OR ("5979186").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/13 14:06
S30	16	("3383172"   "4042361"   "4126422"   "4528163"   "5030433"   "5145510"   "5516350"   "5643347"   "5683483"   "5979186"   "6129899").PN. OR ("6849242").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/13 14:11
S31	10	("5030433"   "5145510"   "5516350"   "5683483"   "5979186").PN. OR ("6129899").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/13 14:12

S32	18	("2500801"   "3321414"   "3458332"   "4042361"   "4105426"   "4200445"   "4952530"   "Re25564").PN. OR ("5643347").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/13 14:12
S33	16	("3383172").URPN.	USPAT	OR	ON	2009/07/13 14:12
S34	1232704	sio <sub>2</sub> silica (silicon adj dioxide) quartz	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S35	3923603	powder grain particle particulate granul dispersion nanoparticle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S36	8931563	reducing (atmosphere environment pressure oh)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S37	1259176	oh hydroxyl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S38	821100	dopant cation (earth adj metal) Lanthanide actinide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S39	1050808	(cation (earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S40	13530	S34 same S35 same S38 same S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S41	48099	("65").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 14:13
S42	196	S40 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13

S43	169	S42 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S44	68	S42 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S45	57	S42 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S46	35	S43 and S44 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:13
S47	1	(S29 S30 S31 S32 S33) and S46	USPAT	OR	ON	2009/07/13 14:13
S48	674687	((earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:54
S49	26	S46 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 14:56
S50	14495	((low reduced reducing free) adj3 bubble)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:31
S51	3293	S34 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:31
S52	107558	S48 same S35	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:31

S53	210	S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:31
S54	14	S41 and S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:31
S55	387445	S35 same S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:34
S56	156	((low reduced reducing free) adj3 bubble) and ((low reduced reducing free) adj3 (oh hydroxyl))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:35
S57	64	S55 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:35
S58	474130	((rare adj earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:36
S59	10	S57 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:37
S60	54930	S34 and S58 and (sinter\$3 firing melt\$3 fired)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:39
S61	1071	S41 and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:40
S62	47429	(bubble and (oh hydroxyl))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:40

S63	104	S61 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 15:40
S64	109065	dopant doping dope	USPAT	OR	ON	2009/07/13 16:27
S65	177564	dopant doping dope doped	USPAT	OR	ON	2009/07/13 16:27
S66	16425	S65 same S48	USPAT	OR	ON	2009/07/13 16:28
S67	15772	S65 same S58	USPAT	OR	ON	2009/07/13 16:28
S68	61266	S34 same (\$5powder granulat\$4)	USPAT	OR	ON	2009/07/13 16:29
S69	200	S67 same3 S68	USPAT	OR	ON	2009/07/13 16:29
S70	80	S69 same3 (sinter\$3 firing melt\$3 fired)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 16:30
S71	10	S70 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 16:32
S72	19	S41 and ((S65 same S68) and (moisture solid) and (oh hydroxyl) and bubble)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 16:39
S73	14214	bet adj surface	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 16:43
S74	39	S41 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 16:44
S75	6	"6380110"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:25
S76	715	S65 same S68	USPAT	OR	ON	2009/07/13 17:36
S77	79	S76 and S41	USPAT	OR	ON	2009/07/13 17:36
S78	715	S65 same S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:37
S79	79	S76 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:37

S80	715	S65 same S68	USPAT; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:37
S81	0	S65 same S68	EPO; JPO; DERWENT	OR	ON	2009/07/13 17:37
S82	19853	gas same pressure same sinter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:44
S83	6057	S82 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:44
S84	227	S83 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:44
S85	54	S84 and (S65)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:45
S86	387464	S34 same (S35 nanopowder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:46
S87	176	S84 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:46
S88	44	S87 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:46
S89	9705	S34 adj5 (nanopowder granulation dispersion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:49
S90	1545496	(pressure same sinter\$3) (hot isostatic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:50
S91	2580	S89 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:50
S92	46	S91 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:50
S93	77289	(pressure same sinter\$3) (hot adj isostatic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:51



S94	158	S89 and S93	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:51
S95	27	S34 adj5 (nanopowder granulation dispersion) adj5 (dopant doped doping (rare adj earth adj metal) (transition adj metal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:53
S96	68	S34 adj5 (nanopowder granulation dispersion) adj25 (dopant doped doping (rare adj earth adj metal) (transition adj metal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:53
S97	151239	S34 adj5 (nanopowder granulation dispersion) adj25 (dopant doped doping) adj25 (rare adj earth adj metal) (transition adj metal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:53
S98	3	S34 adj5 (nanopowder granulation dispersion) adj25 (dopant doped doping) adj25 ((rare adj earth adj metal) (transition adj metal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 17:54
S99	3141	(65/17.3-17.5,22,30.1- 30.14).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 18:45
S100	0	("0030.13").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 18:46
S101	493	(65/30.13).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/13 18:46
S102	296	S34 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 18:46
S103	2	S89 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 18:48
S104	41	S102 and sinter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/13 18:49

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	ceramic same (\$6powder nano\$6 micro\$6) same "s18"	USPAT; UPAD	OR	ON	2009/07/15 23:56

L2	328588	(cation (earth adj metal) Lanthanide actinide Lanthanum Cerium Praseodymium Neodymium Promethium Samarium Europium Gadolinium Terbium Dysprosium Holmium Erbium Thulium Ytterbium Lutetium Actinium Thorium Protactinium Uranium Neptunium Plutonium Americium Curium Berkelium Californium Einsteinium Fermium Mendelevium Nobelium Lawrencium)	USPAT; UPAD	OR	ON	2009/07/15 23:59
L3	11518	I2 same ceramic	USPAT; UPAD	OR	ON	2009/07/15 23:59
L4	1679	(I2 same ceramic).clm.	USPAT; UPAD	OR	ON	2009/07/16 00:00
L5	167	(I2 same ceramic same dop\$4).clm.	USPAT; UPAD	OR	ON	2009/07/16 00:00
L6	17	(I2 same ceramic same dop\$4 same heat\$3).clm.	USPAT; UPAD	OR	ON	2009/07/16 00:04
L7	0	(I2 same ceramic same dop\$4 same (heat\$3 sinter \$3) same (oh hydroxyl)). clm.	USPAT; UPAD	OR	ON	2009/07/16 00:05

**7/ 16/ 2009 12:15:55 AM**

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